Groundstudio AHT21 module

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Module Circuit Schematic

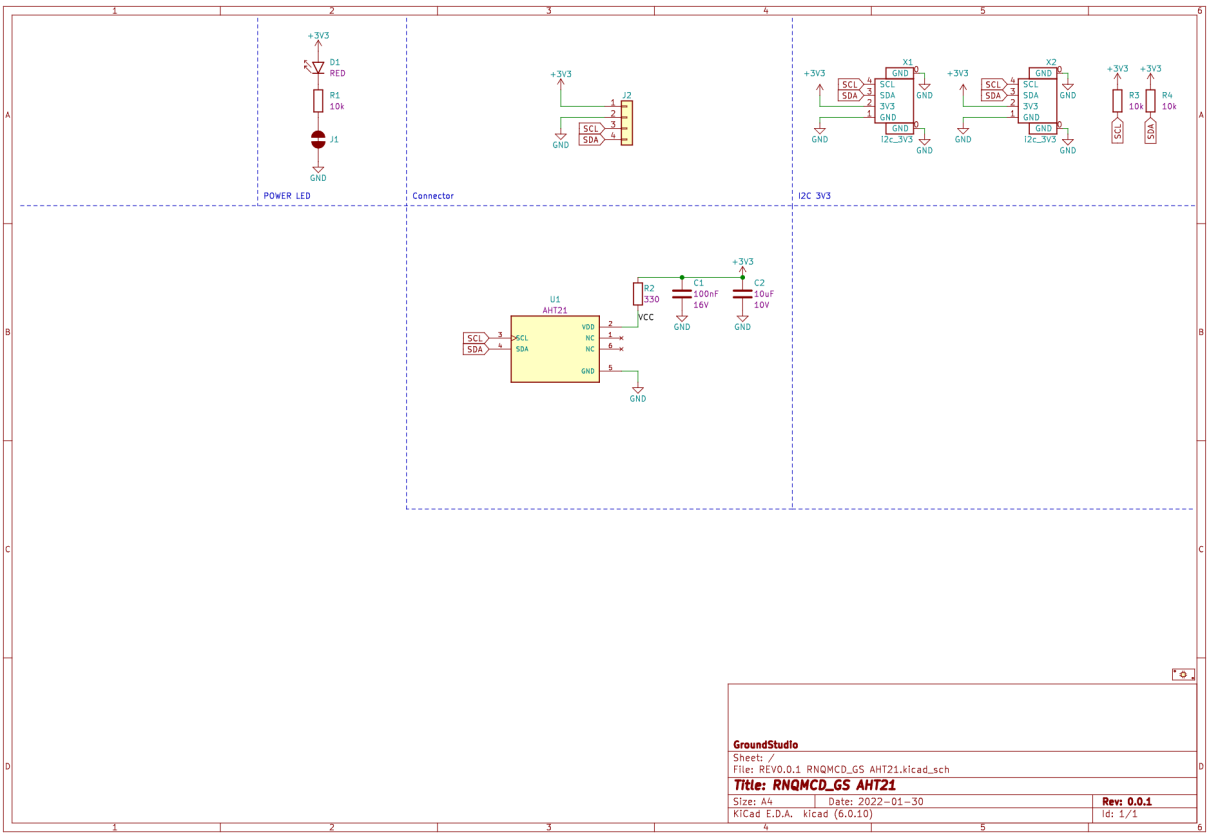

Figure 2: GroundStudio AHT21 module schematic circuit [Revision 0.0.1]

Open Source

This is an Open Source project, you can find all the technical documents online:

https://github.com/GroundStudio/GroundStudio_AHT21_module

License

All documentation for GroundStudio Marble Pico is released under the Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) license. You are welcome to use this for commercial purposes.

Please consider contributing back to this project or others to help the open-source hardware community continue to thrive and grow!

Overview

The humidity and temperature sensor module that uses the I²C standard for communication can thus easily be used on most existing development boards.

The presence of the supply voltage on the I²C 3V3 port is indicated by the "On" led located on the module.

For minimal power consumption, the "POWER" led can be disconnected using the "Cut to disable Power led" jumper located on the back of the pcb.

I²C 3V3 connectors are compatible with Qwiic (SparkFun) and STEMMA QT (Adafruit) standards.

The sensor output (temperature and humidity values) is digital in I²C format.

Technical specifications

Supply voltage: **3.3V DC**

Measured temperature: **-40℃ ~ 120℃**

Humidity: **0~100%RH**

Communication protocol: **I²C**

I²C address: **0x38**

Connector type I²C 3V3: **SH 4P**

I²C 3V3 connector pitch: **1mm**

Legal disclaimer notice

This development board is considered a subassembly in accordance with FCC CFR Title 47 §15.101(e):

https://www.ecfr.gov/current/title-47/chapter-I/subchapter-A/part-15/subpart-B/section-15.101#p-15.101(e)

The device does not have a standalone functionality and does not include an enclosure or power supply.

The device is mainly intended for development and prototyping but it can be integrated into a product. In this case it is the responsibility of the developer/manufacturer to obtain all the necessary certifications.

GroundStudio is a registered trademark of ARDUSHOP SRL:

https://www.tmdn.org/tmview/#/tmview/detail/EM500000018364087

Developer info

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Datasheet Revision History

[Revision 1] - Initial version release